Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

HW#16H: Distance Pt.2

Honors Geometry

Due: Wednesday September 30th

Failure to show work will result in LaSalle.

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| 1) Find the distance of C to D. Leave in radical form. | 2) What is the distance between the points at (-5,6) and (2,-8) in the standard (x,y) coordinate plane?   1. -7 |
| 3) Graph and find the distance for the following (round to the nearest tenth):   1. A(-4, 2) and B(2, 7) 2. P(7, 3) and Q(2, 1)   What line segment is the longest? What line segment is the shortest? What is the difference in the lengths of the two segments? | |
| 4) What is the length of the longest side of the triangle whose vertices have coordinates A(-1, -2), B(4,2), and C (-2,4)?        D. | 5) Find the length of a diagonal (from R to C) in rectangle RECT having coordinates R (0,1), E(0,5), C(6,5), and T (6,1). (Hint: Draw the picture first!)   1. 52 |
| 6) Find the radius of a circle, given that the center is at (2, –3) and the point  (–1, –2) lies on the circle. Round to the nearest hundredth. | |
| 7) Mio, Avia, and Alan are playing in soccer game against Golder College Prep. Mio is at (5,-2) and has the ball. Avia is at (1,2) and Alan is at (-8,1) . The goal is located at  (-10,0).  (a) How far does the ball travel if Mio shoots it directly at the goal?  (b) How far does the ball travel if Mio passes the ball to Avia and Avia shoots at the goal?  (c) How far does the ball travel if Mio passes to Avia, Avia passes to Alan and Alan shoots the ball? | |